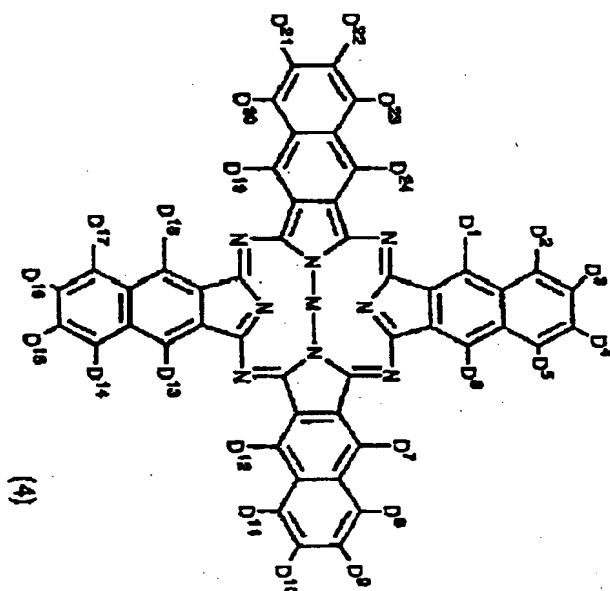


<p>95-317693/41 A97 G02 (A23) MITK 93.12.10 MITSUI TOATSU CHEM INC 93.12.10 93JP-310767 (95.08.15) C09D 11/00, C09B 47/04, C09D 11/02, 11/10//C07C 323/00 Ink compsn., of good storability and sensitivity - contg. UV absorber, near infrared ray absorber, and polyester resin C95-141141 Addnl. Data: 94.11.01 94JP-268910</p>	<p>A(5-E1D, 12-W7D) G(2-A4A)</p>
<p>The ink compsn. (P) contains at least one near infrared ray absorber (A) selected from dithiol cpds. (A1) of formula (I) and formula (II) and phthalocyanine cpds. (A2) of formula (III) and formula (IV),</p> <div data-bbox="743 338 1052 888"> <p>(1)</p> <p>(2)</p> </div>	<div data-bbox="732 1293 1338 1858"> <p>(3)</p> </div> <p>JP 07216275-A+</p>



UV absorber (B), which absorbs UV light of 250-400 nm, and polyester resin (C) and opt. solvent (D) selected from the gps. of alcohol, ketone, ester, aliphatic hydrocarbon, aromatic hydrocarbon, ether, and halogen contg. type solvents.

A¹-A⁸ = each independently a hydrogen or halogen atom or nitr, cyano, thiocyanate, cyanate, acyl, carbamoyl, alkylaminocarbonyl, alkoxy, carbonyl, aryloxy, carbonyl, opt. subst. alkyl, opt. subst. aryl, opt. subst. alkoxy, opt. subst. aryloxy, opt. subst. alkylthio, opt. subst. arylthio, opt. subst. alkylamino, or opt. subst. arylamino gp. Adjacent two gps. may be connected through a linking gp. R¹, R², R³ and R⁴ = each independently an opt. subst. alkyl or opt. subst. aryl gp. B¹, B², B³, and B⁴ = each independently a hydrogen atom or cyano, acyl, carbamoyl, alkylaminocarbonyl, alkoxy, carbonyl, aryloxy, carbonyl, opt. subst. alkyl, or opt. subst. aryl gp. Adjacent two gps. may be connected through a linking gp. M = a divalent metal atom, trivalent or tetravalent subst. metal atom, or oxy metal atom. C¹⁵-C¹⁶ = each independently a hydrogen or halogen atom or opt. subst. alkyl, opt. subst. alkoxy, opt. subst. aryl, opt. subst. aryloxy, opt. subst. alkylthio, or opt. subst. arylthio gp. Each pair of C¹ and C², C³ and C⁴, C⁵ and C⁶, C⁷ and C⁸, C⁹ and C¹⁰, C¹¹ and C¹², C¹³ and C¹⁴, and C¹ and C¹⁶ can not be simultaneously hydrogen atoms. M = a divalent metal atom, trivalent or tetravalent subst. metal atom, or oxy metal atom.

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<p>D¹-D²⁴ = each independently a hydrogen or halogen atom or opt. substd. alkyl, opt. substd. alkoxy, opt. substd. aryl, opt. substd. aryloxy, opt. substd. alkylthio, or opt. substd. arylthio gp.</p> <p>Each pair of D¹ and D², D³ and D⁴, D⁵ and D⁶, D⁷ and D⁸, D⁹ and D¹⁰, D¹¹ and D¹², D¹³ and D¹⁴, D¹⁵ and D¹⁶, D¹⁷ and D¹⁸, D¹⁹ and D²⁰, D²¹ and D²², D²³ and D²⁴ can not be simultaneously hydrogen atom;</p> <p>M = a divalent metal atom, trivalent or tetravalent substd. metal atom, or oxymetal.</p> <p><u>USE</u></p> <p>(P) is suitable for printing prepaid cards, which are read by means of OCR.</p> <p><u>ADVANTAGE</u></p> <p>(P) is excellent in storage stability and sensitivity of near infrared rays (700-1,800 nm). The printings obtd. by (P) are excellent in light resistance.</p> <p><u>PREFERRED EMBODIMENT</u></p> <p>(1) (B) has a max. absorption peak wavelength of 250-400 nm.</p>	<p>(2) (C) is a satd. aliphatic polyester. (10pp180DwgNo.0/0)</p> <p>JP 07216275-A/2</p>

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